

**BAROMETRIC (PRESSURE) INDICATORS**

**CLOGGING  
INDICATORS**



## **B** BAROMETRIC (PRESSURE) INDICATORS

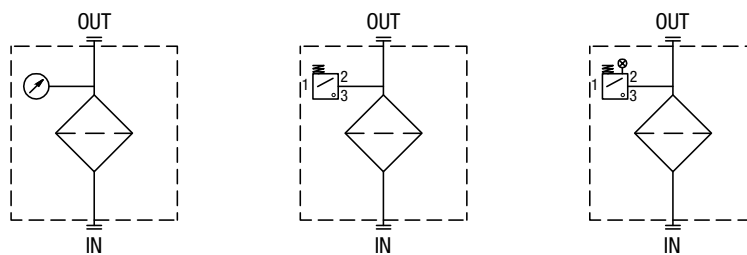
Pressure indicators are used on the Return line to check the efficiency of the filter element. They measure the pressure upstream of the filter element.

Standard items are produced with R 1/8" EN 10226 connection.

Barometric (pressure) indicators are identified in the Hydraulic Filtration catalogue and in the Quick Reference Guide table by the letter "B"

Example:

**B** BVA14P01



# Barometric (Pressure) Indicators



# DESIGNATION, ORDERING CODES & TECHNICAL DATA

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**APPLICABLE BAROMETRIC (PRESSURE) INDICATORS BY FILTER SERIES**

Filter Series	BEA	BEM	BET	BLA	BVA	BVR	BVP	BVQ
RFEX	•	•	-	•	•	•	•	•
MPFX	•	•	•	•	•	•	•	•
MPLX	-	-	-	-	-	-	-	-
MPTX	•	•	•	•	•	•	•	•
MFBX	-	-	-	-	-	-	-	-
MDHC	•	•	•	•	•	•	•	•
MPHC	•	•	-	•	•	•	•	•
MPIC	-	-	-	-	-	-	-	-
FRIC (all sizes, except 255)	-	-	-	-	-	-	-	-
FRIC 255	•	•	-	•	•	•	•	•
RFMC	-	-	-	-	-	-	-	-

**BAROMETRIC (PRESSURE) INDICATORS**

Series	Configuration example 1: BE A 15 H A 41 P01 EX									
<b>BE</b> Electrical pressure indicator	Configuration example 2: BL A 20 H A 71 P01									
<b>BL</b> Electrical/Visual pressure indicator	Configuration example 3: BV R 14 P01									
<b>BV</b> Visual pressure indicator	Configuration example 4: BV P 20 H P01									

Type	BE	BL	BV
<b>A</b> Standard type	•	•	<b>A</b> Axial connection pressure gauge
<b>M</b> With wired electrical connection	•	-	<b>R</b> Radial connection pressure gauge
<b>T</b> With thermal switch	•	-	<b>P</b> Visual indicator with automatic reset
			<b>Q</b> Visual indicator with manual reset

Pressure setting	BEA-BEM	BET	BLA	BVA-BVR-BVE-BVH	BVP-BVQ-BVN-BVO
<b>14</b> 1.4 bar	-	-	-	•	-
<b>15</b> 1.5 bar	•	-	•	-	•
<b>20</b> 2.0 bar	•	•	•	-	•
<b>25</b> 2.5 bar	-	•	-	•	-

Seals	BE	BLA	BVA-BVR-BVE-BVH	BVP-BVQ-BVN-BVO
<b>H</b> HNBR	•	•	-	•

Thermostat	BEA-BEM	BET	BLA	BV
<b>A</b> Without thermostat	•	-	•	-
<b>F</b> With thermostat	-	•	-	-

Electrical connections	BEA	BEM	BET	BL	BV
<b>10</b> Connection AMP Superseal series 1,5	-	-	•	-	-
<b>30</b> Connection Deutsch DT-04-2-P	-	-	•	-	-
<b>41</b> Connection via four-core cable	-	•	-	-	-
<b>50</b> Connection EN 175301-803	•	-	-	-	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•	-
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•	-
<b>53</b> Connection EN 175301-803, transparent base with lamps 230 Vac	-	-	-	•	-
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•	-

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	BEA	BEM-BET	BL	BV
Without	•	•	•	•
<b>EX</b> ATEX certification	•	-	-	-
<b>UL</b> UL certification	•	-	-	-

# RETURN/SUCTION FILTERS BAROMETRIC (PRESSURE) INDICATORS

## Designation & Ordering code

### APPLICABLE BAROMETRIC (PRESSURE) INDICATORS BY FILTER SERIES

Filter Series	BEA	BEM	BET	BLA	BVA	BVR	BVP	BVQ
<b>MRSX</b>	•	•	•	•	•	•	•	•
<b>LMP124</b>	•	•	•	•	•	•	•	•

### BAROMETRIC (PRESSURE) INDICATORS

Series	Configuration example 1:	BE	M	15	H	A	41	P01	EX
<b>BE</b> Electrical pressure indicator	Configuration example 2:	BL	A	20	H	A	71	P01	
<b>BL</b> Electrical/Visual pressure indicator	Configuration example 3:	BV	R	14				P01	
<b>BV</b> Visual pressure indicator	Configuration example 4:	BV	P	20	H			P01	

Type	BE	BL	Type	BV
<b>A</b> Standard type	•	•	<b>A</b>	Axial connection pressure gauge
<b>M</b> With wired electrical connection	•	-	<b>R</b>	Radial connection pressure gauge
<b>T</b> With thermal switch	•	-	<b>P</b>	Visual indicator with automatic reset
			<b>Q</b>	Visual indicator with manual reset

Pressure setting	BEA-BEM	BET	BLA	BVA-BVR	BVP-BVQ
<b>14</b> 1.4 bar	-	-	-	•	-
<b>15</b> 1.5 bar	•	-	•	-	•
<b>20</b> 2.0 bar	•	•	•	-	•
<b>25</b> 2.5 bar	-	•	-	•	-

Seals	BE	BLA	BVA-BVR	BVP-BVQ
<b>H</b> HNBR	•	•	-	•

Thermostat	BEA-BEM	BET	BLA	BV
<b>A</b> Without thermostat	•	-	•	-
<b>F</b> With thermostat	-	•	-	-

Electrical connections	BEA	BEM	BET	BL
<b>10</b> Connection AMP Superseal series 1.5	-	-	•	-
<b>30</b> Connection Deutsch DT-04-2-P	-	-	•	-
<b>41</b> Connection via four-core cable	-	•	-	-
<b>50</b> Connection EN 175301-803	•	-	•	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	-	•
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	-	•
<b>53</b> Connection EN 175301-803, transparent base with lamps 230 Vac	-	-	-	•
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	-	•

Option
<b>P01</b> MP Filtri standard
<b>Pxx</b> Customized

Certifications	BEA	BEM-BET	BL	BV
Without	•	•	•	•
<b>EX</b> ATEX certification	•	-	-	-
<b>UL</b> UL certification	•	-	-	-

**APPLICABLE BAROMETRIC (PRESSURE) INDICATORS BY FILTER SERIES**

Filter Series	BEA	BEM	BET	BLA	BVA	BVR	BVP	BVQ
<b>MPS</b>	•	•	•	•	•	•	•	•

**BAROMETRIC (PRESSURE) INDICATORS**

Series	Configuration example 1:	BE	M	15	H	A	41	P01	EX
<b>BE</b> Electrical pressure indicator	Configuration example 2:	BL	A	20	H	A	71	P01	
<b>BL</b> Electrical/Visual pressure indicator	Configuration example 3:	BV	R	14				P01	
<b>BV</b> Visual pressure indicator	Configuration example 4:	BV	P	20	H			P01	

Type	BE	BL	BV	
<b>A</b> Standard type	•	•	<b>A</b> Axial connection pressure gauge	
<b>M</b> With wired electrical connection	•	-	<b>R</b> Radial connection pressure gauge	
			<b>P</b> Visual indicator with automatic reset	
			<b>Q</b> Visual indicator with manual reset	

Pressure setting	BEA-BEM	BET	BLA	BVA-BVR	BVP-BVQ
<b>14</b> 1.4 bar	-	-	-	•	-
<b>15</b> 1.5 bar	•	-	•	-	•
<b>20</b> 2.0 bar	•	•	•	-	•
<b>25</b> 2.5 bar	-	•	-	•	-

Seals	BE	BLA	BVA-BVR	BVP-BVQ
<b>H</b> HNBR	•	•	-	•

Thermostat	BEA-BEM	BET	BLA	BV
<b>A</b> Without thermostat	•	-	•	-
<b>F</b> With thermostat	-	•	-	-

Electrical connections	BEA	BEM	BL
<b>10</b> Connection AMP Superseal series 1.5	-	-	-
<b>30</b> Connection Deutsch DT-04-2-P	-	-	-
<b>41</b> Connection via four-core cable	-	•	-
<b>50</b> Connection EN 175301-803	•	-	-
<b>51</b> Connection EN 175301-803, transparent base with lamps 24 Vdc	-	-	•
<b>52</b> Connection EN 175301-803, transparent base with lamps 110 Vdc	-	-	•
<b>53</b> Connection EN 175301-803, transparent base with lamps 230 Vac	-	-	•
<b>71</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	-	-	•

Option	
<b>P01</b>	MP Filtri standard
<b>Pxx</b>	Customized

Certifications	BEA	BEM-BET	BL	BV
Without	•	•	•	•
<b>EX</b> ATEX certification	•	-	-	-
<b>UL</b> UL certification	•	-	-	-

# BAROMETRIC (PRESSURE) INDICATORS

## Dimensions

BEA*50 (EX)	
<b>Electrical Pressure Indicator</b> Connection EN 175301-803	
Settings	Ordering code
1.5 bar ±10%	BE A 15 HA 50 P01 BE A 15 HA 50 P01 EX
2.0 bar ±10%	BE A 20 HA 50 P01 BE A 20 HA 50 P01 EX

A/F 27  
Max tightening torque:  
**25 N·m**

EN 10226 - R1/8"

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 40 bar
- Proof pressure: 60 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

**Electrical data**

- Electrical connection: EN 175301-803
- Resistive load:  
5 A / 14 Vdc  
4 A / 30 Vdc  
5 A / 125 Vac  
4 A / 250 Vac

**Certification:** ATEX, IECEx  
- Certification included in EX version

BEA*50 UL	
<b>Electrical Pressure Indicator</b> Connection EN 175301-803	
Settings	Ordering code
1.5 bar ±10%	BE A 15 HA 50 P01 UL
2.0 bar ±10%	BE A 20 HA 50 P01 UL

A/F 27  
Max tightening torque:  
**25 N·m**

EN 10226 - R1/8"

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 12 bar
- Proof pressure: 40 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

**Electrical data**

- Electrical connection: EN 175301-803
- Resistive load:  
5 A / 14 Vdc  
4 A / 30 Vdc  
5 A / 125 Vac  
4 A / 250 Vac

**Certification:** UL  
- Certification included as standard

BEM*41	
<b>Electrical Pressure Indicator</b> Connection via four-core cable	
Settings	Ordering code
1.5 bar ±10%	BE M 15 HA 41 P01
2.0 bar ±10%	BE M 20 HA 41 P01

A/F 27  
Max tightening torque:  
**25 N·m**

EN 10226 - R1/8"

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 40 bar
- Proof pressure: 60 bar
- Working temperature: From -25 °C to +80 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids  
HFB and HFC according to ISO 2943
- Degree of protection: IP67 according to EN 60529

**Electrical data**

- Electrical connection: Four-core cable
- Resistive load:  
5 A / 14 Vdc  
4 A / 30 Vdc  
5 A / 125 Vac  
4 A / 250 Vac

- CE certification  
On request this indicator can be provided with main connectors in use for wirings.

BET*F10	
<b>Electrical Pressure Indicator</b> Connection AMP Superseal series 1.5	
Settings	Ordering code
2.0 bar $\pm 10\%$	BET 20 H F 10 P01
2.5 bar $\pm 10\%$	BET 25 H F 10 P01

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25 °C to +100 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

**Electrical data**

- Electrical connection: AMP Superseal series 1.5
- Resistive load: 0.5 A / 48 Vdc
- Thermostat condition: Open up to 30 °C
- CE certification

BET*F30	
<b>Electrical Pressure Indicator</b> Deutsch DT-04-2-P	
Settings	Ordering code
2.0 bar $\pm 10\%$	BET 20 H F 30 P01
2.5 bar $\pm 10\%$	BET 25 H F 30 P01

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25 °C to +100 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

**Electrical data**

- Electrical connection: Deutsch DT-04-2-P
- Resistive load: 0.5 A / 48 Vdc
- Thermostat condition: Open up to 30 °C
- CE certification

BET*F50	
<b>Electrical Pressure Indicator</b> Connection EN 175301-803	
Settings	Ordering code
2.0 bar $\pm 10\%$	BET 20 H F 50 P01
2.5 bar $\pm 10\%$	BET 25 H F 50 P01

**Hydraulic symbol**

**Electrical symbol**

**Materials**

- Body: Brass
- Base: Black polyamide
- Contacts: Silver
- Seal: HNBR

**Technical data**

- Max working pressure: 10 bar
- Proof pressure: 15 bar
- Working temperature: From -25 °C to +100 °C
- Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943
- Degree of protection: IP65 according to EN 60529

**Electrical data**

- Electrical connection: EN 175301-803
- Resistive load: 0.5 A / 48 Vdc
- Thermostat condition: Open up to 30 °C
- CE certification

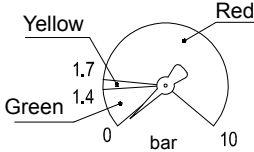
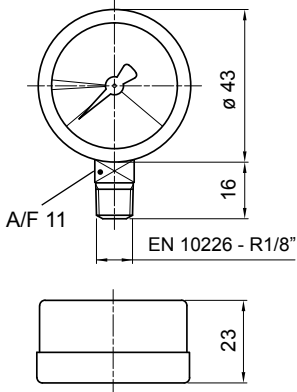
# BAROMETRIC (PRESSURE) INDICATORS

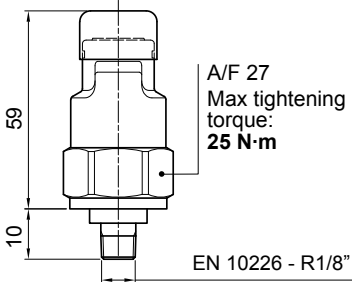
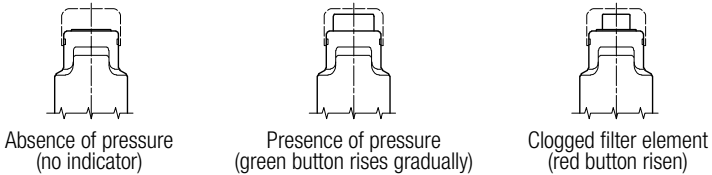
## Dimensions

BL*51 - BL*52 - BL*53	
<b>Electrical/Visual Pressure Indicator</b> Connection: EN 175301-803	
51: Transparent base with lamps 24 Vdc 52: Transparent base with lamps 110 Vdc 53: Transparent base with lamps 230 Vac	
Settings	Ordering code
1.5 bar $\pm$ 10%	BL A 15 H A xx P01
2.0 bar $\pm$ 10%	BL A 20 H A xx P01
<b>Hydraulic symbol</b> 	
<b>Electrical symbol</b> 	
<b>Materials</b> - Body: Brass - Base: Transparent polyamide - Contacts: Silver - Seal: HNBR	
<b>Technical data</b> - Max working pressure: 40 bar - Proof pressure: 60 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree of protection: IP65 according to EN 60529	
<b>Electrical data</b> - Electrical connection: EN 175301-803 - Type: 51                      52                      53 - Lamps: 24 Vdc              110 Vdc              230 Vac - Resistive load: 1 A / 24 Vdc    1 A / 110 Vdc    1 A / 230 Vac	

BL*71	
<b>Electrical/Visual Pressure Indicator</b> Connection IEC 61076-2-101 D (M12), black base with lamps 24 Vdc	
Settings	Ordering code
1.5 bar $\pm$ 10%	BL A 15 H A 71 P01
2.0 bar $\pm$ 10%	BL A 20 H A 71 P01
<b>Hydraulic symbol</b> 	
<b>Electrical symbol</b> 	
<b>Materials</b> - Body: Brass - Base: Black polyamide - Contacts: Silver - Seal: HNBR	
<b>Technical data</b> - Max working pressure: 40 bar - Proof pressure: 60 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree of protection: IP65 according to EN 60529	
<b>Electrical data</b> - Electrical connection: IEC 61076-2-101 D (M12) - Lamps: 24 Vdc (black base) - Resistive load: 0.4 A / 24 Vdc	

BVA	
<b>Axial Pressure Gauge</b>	
Settings	Ordering code
1.4 bar $\pm$ 10%	BV A 14 P01
2.5 bar $\pm$ 10%	BV A 25 P01
<b>Hydraulic symbol</b> 	
<b>Dial scale</b> BV A 14 P01 	
<b>Dial scale</b> BV A 25 P01 	
<b>Materials</b> - Case: Painted Steel - Window: Clear plastic - Dial: Painted Steel - Pointer: Black plastic - Pressure connection: Brass - Pressure element: Bourdon tube Cu-alloy soft soldered, C type - Movement: Cu-alloy	
<b>Technical data</b> - Max working pressure: Static: 7 bar Fluctuating: 6 bar Short time: 10 bar - Working temperature: Ambient from -40 °C to +60 °C Fluid max +60 °C Storage from -40 °C to +60 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Accuracy: Class 2.5 according to EN 13190 - Degree of protection: IP31 according to EN 60529	

BVR		Hydraulic symbol	Materials
<b>Radial Pressure Gauge</b>			
Settings	Ordering code		
1.4 bar ±10%	BV R 14 P01	<b>Dial scale</b> BV R 14 P01 	
2.5 bar ±10%	BV R 25 P01		
		<b>Technical data</b> - Max working pressure: Static: 7 bar Fluctuating: 6 bar Short time: 10 bar - Working temperature: Ambient from -40 °C to +60 °C Fluid max +60 °C Storage from -40 °C to +60 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Accuracy: Class 2.5 according to EN 13190 - Degree of protection: IP31 according to EN 60529	

BVP - BVQ		Hydraulic symbol	Materials
<b>Visual Pressure Indicator</b>			
BVP - Automatic reset BVQ - Manual reset			
Setting	Ordering code	<b>Technical data</b> - Reset: BVP - Automatic reset BVQ - Manual reset - Max working pressure: 10 bar - Proof pressure: 15 bar - Working temperature: From -25 °C to +80 °C - Compatibility with fluids: Mineral oils, Synthetic fluids HFB and HFC according to ISO 2943 - Degree of protection: IP45 according to EN 60529	
1.5 bar ±10%	BV P 15 H P01 BV Q 15 H P01		
2.0 bar ±10%	BV P 20 H P01 BV Q 20 H P01		
		<b>Signals</b> 	

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